



**US Army Corps  
of Engineers**  
Fort Worth District

# Public Notice

Applicant: Texas Department of Transportation

Permit Application No.: 200200630

Date: September 15, 2004

The purpose of this public notice is to inform you of a proposal for work in which you might be interested. It is also to solicit your comments and information to better enable us to make a reasonable decision on factors affecting the public interest. We hope you will participate in this process.

## **Regulatory Program**

Since its early history, the U.S. Army Corps of Engineers has played an important role in the development of the nation's water resources. Originally, this involved construction of harbor fortifications and coastal defenses. Later duties included the improvement of waterways to provide avenues of commerce. An important part of our mission today is the protection of the nation's waterways through the administration of the U.S. Army Corps of Engineers Regulatory Program.

## **Section 10**

The U.S. Army Corps of Engineers is directed by Congress under Section 10 of the Rivers and Harbors of 1899 (33 USC 403) to regulate *all work or structures in or affecting the course, condition or capacity of navigable waters of the United States*. The intent of this law is to protect the navigable capacity of waters important to interstate commerce.

## **Section 404**

The U.S. Army Corps of Engineers is directed by Congress under Section 404 of the Clean Water Act (33 USC 1344) to regulate the *discharge of dredged and fill material into all waters of the United States, including wetlands*. The intent of the law is to protect the nation's waters from the indiscriminate discharge of material capable of causing pollution and to restore and maintain their chemical, physical and biological integrity.

## **Contact**

Name: Ms. Jessica Napier

Phone Number: (817) 886-1745

**JOINT PUBLIC NOTICE**

**U.S. ARMY CORPS OF ENGINEERS, FORT WORTH DISTRICT**

**AND**

**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**

**SUBJECT:** Application for a Department of the Army Permit under Section 404 of the Clean Water Act (CWA) and for water quality certification under Section 401 of the CWA to discharge dredged and fill material into waters of the United States associated with the construction and operation of Phase II of Loop 49 in the city of Tyler, Smith County, Texas.

**APPLICANT:** Texas Department of Transportation  
Ms. Mary M. Owen, P.E  
District Engineer  
2709 West Front Street  
Tyler, Texas 75702

**APPLICATION NUMBER:** 200200630

**DATE ISSUED:** September 15, 2004

**LOCATION:** The proposed roadway construction would extend Loop 49 South from U.S. Highway 69 (U.S. 69) to FM 756 in the city of Tyler, Smith County, Texas. The proposed project would be located approximately at UTM coordinates 283751.808 East and 3569218.201 North (Zone 15) on the Bullard 7.5-minute USGS quadrangle map in the USGS Hydrologic Unit 12020004.

**OTHER AGENCY AUTHORIZATIONS:** State Water Quality Certification

**PROJECT DESCRIPTION:** The applicant proposes to construct Phase II of Loop 49 South between U.S. 69 and FM 756, an approximately 2-mile long new four-lane divided highway in the city of Tyler, Smith County, Texas (Sheets 1-15 of 15). The purpose of the proposed Loop 49 would be to provide the infrastructure to alleviate traffic congestion on existing roadways in the Tyler area and to improve roadway capacity to meet future traffic load projections. Commercial and residential development in the project area have contributed to the need for the extension of Loop 49. The applicant stated that this project would provide a more expeditious route around the city of Tyler and avoid traffic congestion currently associated with Loop 323. The proposed road would have a parkway section and has been designed in conjunction with regional planning efforts that are detailed in the "Tyler Loop 49 South Environmental Impact Statement, Smith County, Texas, Final Impact Statement" which was approved by the Federal Highway Administration (FHWA) on June 25, 1998. The road would be a 2-mile long, four-lane divided roadway with a parkway section with paved shoulders and side ditches to provide

emergency parking and storm water drainage. A bridge would be constructed at Shackleford Creek and culverts would be constructed at an unnamed perennial stream that is a tributary to West Mud Creek, one intermittent stream that is a tributary to Shackleford Creek, and one ephemeral tributary to Shackleford Creek (Sheet 3 of 15). Other segments of the proposed Loop are already completed, under construction, or are scheduled. The applicant and FHWA have concluded that this phase of highway construction has independent utility from other phases of Loop 49 construction. Construction of the proposed project would begin in the fall of 2004 and would take approximately two years to complete.

The applicant has attempted to avoid and minimize impacts to waters of the United States to the extent practicable; however, due to the size and location of the project some impacts to waters of the United States would be unavoidable. The proposed roadway would adversely effect Shackleford Creek; one unnamed perennial stream that is a tributary to West Mud Creek and an adjacent forested wetland; one intermittent stream that is a tributary to Shackleford Creek; and one ephemeral stream that is a tributary to Shackleford Creek and a portion of an on channel pond. See Table 1 for a summary of permanent and temporary adverse impacts to waters of the United States.

Approximately 6.07 acres of the 6.99 acres of waters of the United States (including adjacent wetlands) located within the right-of-way would be permanently adversely impacted by the proposed project and 0.92 acre would be temporarily adversely impacted by the proposed project. The proposed project would involve the discharge of approximately 112,027 cubic yards of dredged and fill material into waters of the United States. The applicant proposes to cross Shackleford Creek with a bridge to span the channels to avoid and minimize impacts. The applicant would protect waters of the United States in the proposed ROW that are not planned to be adversely impacted during construction. TxDOT has stated that mechanized land-clearing and grading activities necessary to install structures in waters of the United States would unavoidably result in a temporary adverse impact to approximately 0.86 acre of forested wetlands and approximately 320 linear feet of perennial stream channel and 63 linear feet of ephemeral stream channel. The applicant would restore areas of temporary adverse impact to preconstruction contours. TxDOT has stated that it sought to minimize these adverse impacts by utilizing sound engineering best management practices, acquiring the least amount of right-of-way required for construction, and by spanning waters of the United States with bridging to the maximum extent practicable.

Dominant vegetative species found in non-wetland riparian communities along creeks and streams within the right-of-way of the proposed project typically include any or all of the following: 1) water oak (*Quercus nigra*), southern red oak (*Quercus falcata*), sweetgum (*Liquidambar styraciflua*), post oak (*Quercus stellata*), American elm (*Ulmus americana*), loblolly pine (*Pinus taeda*), shortleaf pine (*Pinus echinata*), blackgum (*Nyssa sylvatica*), mockernut hickory (*Carya tomentosa*), flowering dogwood (*Cornus florida*) southern waxmyrtle (*Myrica cerifera*) and yaupon (*Ilex vomitoria*), eastern redcedar (*Juniperus virginiana*), common persimmon (*Diospyros virginiana*) as canopy, sapling, or shrub species; 2) common greenbriar

**Table 1: Permanent and Temporary Adverse Impacts to Waters of the United States**

Crossing Number (See Figure 2 of 15)	Quality	Type of water of the United States	Permanent Adverse Impact to Streams	Temporary Adverse Impact to Streams	Temporary Adverse Impacts to Wetlands (Acres)	Permanent Adverse Impact to Wetlands (Acres)	Permanent Adverse Impact to Open Waters (Acres)
1. a. Unnamed perennial tributary to Mud Creek	High	Perennial Stream	744 linear feet (0.10 acre)				
b. Forested wetland adjacent to an unnamed tributary to Mud Creek	High	Forested Wetland			0.86	4.62	
2. Shackleford Creek	Medium	Perennial Stream			320 linear feet (0.04 acre)		
3. Unnamed ephemeral tributary to Shackleford Creek	Low	Ephemeral Stream	352 linear feet (0.12 acre)		63 linear feet (0.02 acre)		
4. a. Unnamed tributary to Shackleford Creek	Low	Intermittent Stream	891 linear feet (0.28 acre)				
b. Pond on unnamed tributary to Shackleford Creek	Low	Open Water					0.95
Total:			1,987 linear feet (0.50 acre)	383 linear feet (0.06 acre)	0.86	4.62	0.95

(*Smilax rotundifolia*), muscadine grape (*Vitis rotundifolia*), Alabama supplejack (*Berchemia scandens*), poison ivy (*Toxicodendron radicans*), and Japanese Honeysuckle (*Lonicera japonica*) as vine species; and bermudagrass (*Cynodon dactylon*), bahia (*Paspalum notatum*), and Cherokee sedge (*Carex cherokeensis*) as herbaceous species.

As detailed in the June 25, 1998, final environmental impact statement, the applicant studied nine preliminary alternative alignments. These were later pared down to three primary alternative alignments and compared with a no-build alternative. The applicant found that the no-build alternative would not alleviate existing traffic congestion on Loop 323, would not provide a by-pass route for Tyler, would not meet future traffic demands, and would not be consistent with local transportation plans. Of the three primary alternative alignments, the applicant, with the concurrence of the FHWA, determined the alignment closest to Tyler to be the preferred alignment after considering a variety of factors including topography and impacts to residential and commercial properties and to waters of the United States. The other two alignment alternatives would have resulted in the same or greater adverse impacts to waters of the United States.

After the final route selection, the applicant made additional efforts to avoid and minimize adverse impacts to waters of the United States. A span structure was considered at crossing number 1, however, spanning this site would have necessitated raising the profile of the ramps, which would not allow the proposed Loop 49 to tie into the existing U.S. 69 profile. If the existing U.S. 69 profile was raised to meet Loop 49, the proposed Loop 49 overpass would also have to be raised.

The applicant has submitted a mitigation plan to minimize adverse impacts and compensate for unavoidable adverse impacts to waters of the United States. This plan includes provisions for best management practices to be implemented during and following construction to maintain water quality. The applicant has stated that it was unable to locate opportunities for on-site or near-site compensatory mitigation to offset permanent and temporary unavoidable adverse impacts to waters of the United States. Therefore, the applicant proposes to compensate by debiting credits from the Anderson Tract Mitigation Bank (ATMB) in Smith County, Texas. The applicant would debit the bank at the ATMB bank rate of 3 credits per acre for adverse impacts to low quality waters of the United States, 5 credits per acre for adverse impacts to medium quality waters of the United States, and 7 credits per acre for adverse impacts to high quality waters of the United States (See Table 2 below). The applicant proposes to debit a total of 44 credits to compensate for both permanent and temporary adverse impacts to waters of the United States caused by this project.

**Table 2: Proposed Compensatory Mitigation**

Quality of Waters of the United States (Wetlands and Streams)	Area of Adverse Impact (Permanent and Temporary) (Acres)	Mitigation Ratio*	Proposed Compensatory Mitigation
High	5.58	1 : 7	39.06
Medium	0.04	1 : 5	0.2
Low	1.37	1 : 3	4.37
Total:	6.99		43.63 (44 Credits)

\* Acres Adversely Affected : Acres / Credits of Mitigation

**PUBLIC INTEREST REVIEW FACTORS:** This application will be reviewed in accordance with 33 CFR 320-331, the Regulatory Program of the U. S. Army Corps of Engineers (USACE), and other pertinent laws, regulations, and executive orders. Our evaluation will also follow the guidelines published by the U. S. Environmental Protection Agency pursuant to Section 404(b)(1) of the CWA. The decision whether to issue a permit will be based on an evaluation of the probable impact, including cumulative impact, of the proposed activity on the public interest. That decision will reflect the national concerns for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including its cumulative effects. Among the factors addressed are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people.

The USACE is soliciting comments from the public; federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the USACE in determining whether to issue, issue with modifications, or conditions, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

**STATE WATER QUALITY CERTIFICATION:** This project would result in a direct impact of greater than three acres of waters of the state or 1,500 linear feet of streams (or a combination of the two is above the threshold), and as such would not fulfill Tier I criteria for the project. Therefore, Texas Commission on Environmental Quality (TCEQ) certification is required. Concurrent with the processing of this Department of the Army application, the TCEQ is

reviewing this application under Section 401 of the Clean Water Act, and Title 31, Texas Administrative Code Section 279.1-13 to determine if the work would comply with State water quality standards. By virtue of an agreement between the USACE and the TCEQ, this public notice is also issued for the purpose of advising all known interested persons that there is pending before the TCEQ a decision on water quality certification under such act. Any comments concerning this application may be submitted to the Texas Commission on Environmental Quality, 401 Coordinator, MSC-150, P.O. Box 13087, Austin, Texas 78711-3087. The public comment period extends 30 days from the date of publication of this notice. A copy of the public notice with a description of the work is made available for review in the TCEQ's Austin Office. The complete application may be reviewed in the USACE's office. The TCEQ may conduct a public hearing to consider all comments concerning water quality if requested in writing. A request for a public hearing must contain the following information: the name, mailing address, application number, or other recognizable reference to the application; a brief description of the interest of the requestor, or of persons represented by the requestor; and a brief description of how the application, if granted, would adversely affect such interest.

**ENDANGERED AND THREATENED SPECIES:** The USACE has reviewed the U.S. Fish and Wildlife Service's latest published version of endangered and threatened species to determine if any may occur in the project area. The proposed project would be located in a county where the whooping crane (*Grus americana*), interior least tern (*Sterna antillarum*), bald eagle (*Haliaeetus leucocephalus*), piping plover (*Charadrius melanotos*), and Louisiana black bear (*Ursus americanus luteolus*) are known to occur or may occur as migrants. The whooping crane and interior least tern are endangered species and the bald eagle, piping plover, and Louisiana black bear are threatened species. Our initial review indicates that the proposed work would have no effect on federally-listed endangered or threatened species.

**NATIONAL REGISTER OF HISTORIC PLACES:** The applicant conducted an archeological survey for the project from July 29, 2003, through August 1, 2003, under a Texas Antiquities Code permit. A 100% pedestrian survey of the right-of-way was conducted and consisted of a total of 111 shovel test units. No cultural materials were observed in any of the shovel tests. No archeological sites, historic or prehistoric, were identified as a result of the survey. The applicant requested the State Historic Preservation Officer's (SHPO) concurrence that the project would have no effect on archeological historic properties and that the project may proceed with no further archeological research on September 2, 2003. The SHPO concurred that no further archeological research was needed on September 4, 2003. The USACE concurs with the work undertaken by the applicant and with the SHPO's determination of no historic properties affected. No further work to identify cultural resources is currently planned on this project.

**FLOODPLAIN MANAGEMENT:** The USACE is sending a copy of this public notice to the local floodplain administrator. In accordance with 44 CFR part 60 (Flood Plain Management Regulations Criteria for Land Management and Use), the floodplain administrators of participating communities are required to review all proposed development to determine if a floodplain development permit is required and maintain records of such review.

**SOLICITATION OF COMMENTS:** The public notice is being distributed to all known interested persons in order to assist in developing fact upon which a decision by the USACE may be based. For accuracy and completeness of the record, all data in support of or in opposition to the proposed work should be submitted in writing setting forth sufficient detail to furnish a clear understanding of the reasons for support or opposition.

**PUBLIC HEARING:** Prior to the close of the comment period any person may make a written request for a public hearing setting forth the particular reasons for the request. The District Engineer will determine whether the issues raised are substantial and should be considered in his permit decision. If a public hearing is warranted, all known interested persons will be notified of the time, date, and location.

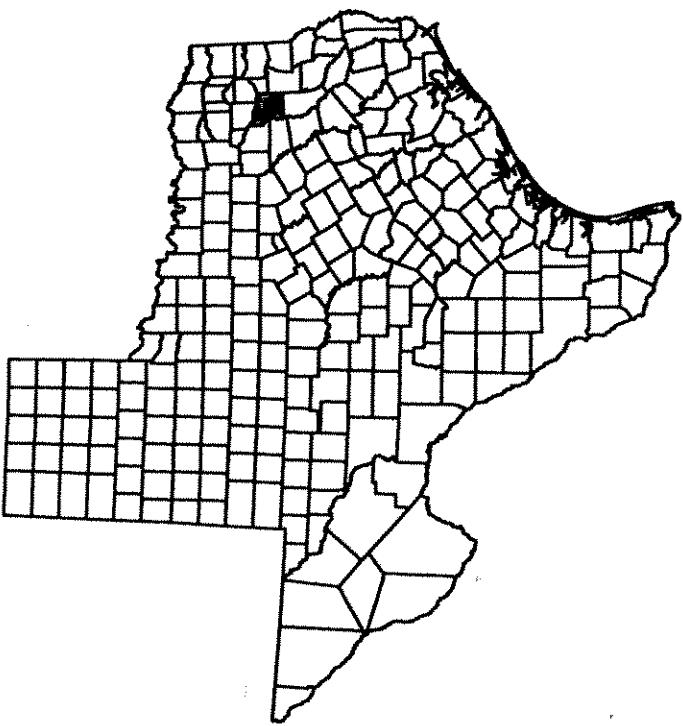
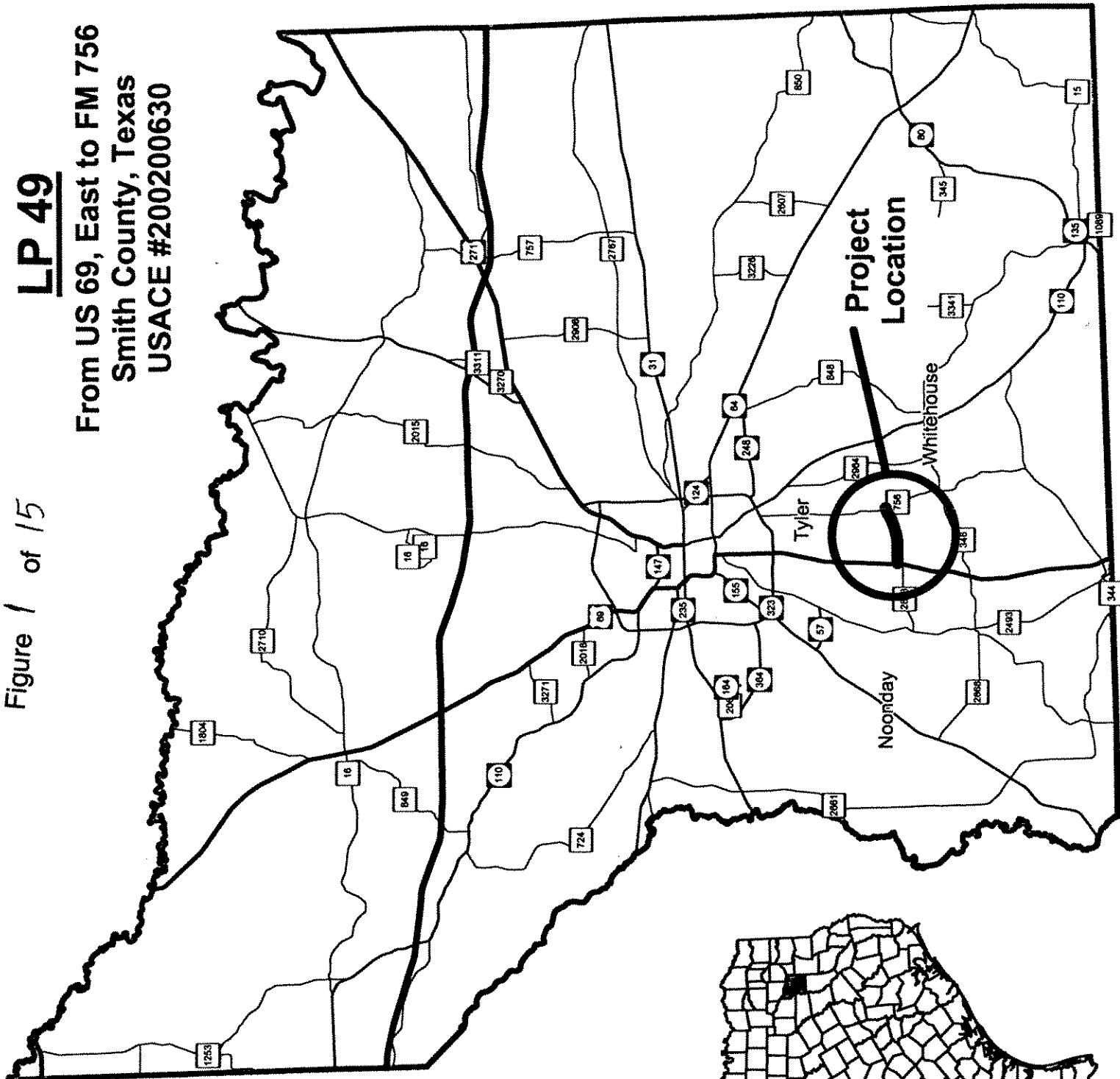
**CLOSE OF COMMENT PERIOD:** All comments pertaining to this Public Notice must reach this office on or before October 15, 2004, which is the close of the comment period. Extensions of the comment period may be granted for valid reasons provided a written request is received by the limiting date. If no comments are received by that date, it will be considered that there are no objections. Comments and requests for additional information should be submitted to Ms. Jessica Napier; Regulatory Branch, CESWF-PER-R; U. S. Army Corps of Engineers; Post Office Box 17300; Fort Worth, Texas 76102-0300. You may visit the Regulatory Branch in Room 3A37 of the Federal Building at 819 Taylor Street in Fort Worth between 8:00 A.M. and 3:30 P.M., Monday through Friday. Telephone inquiries should be directed to (817) 886-1731. Please note that names and addresses of those who submit comments in response to this public notice may be made publicly available.

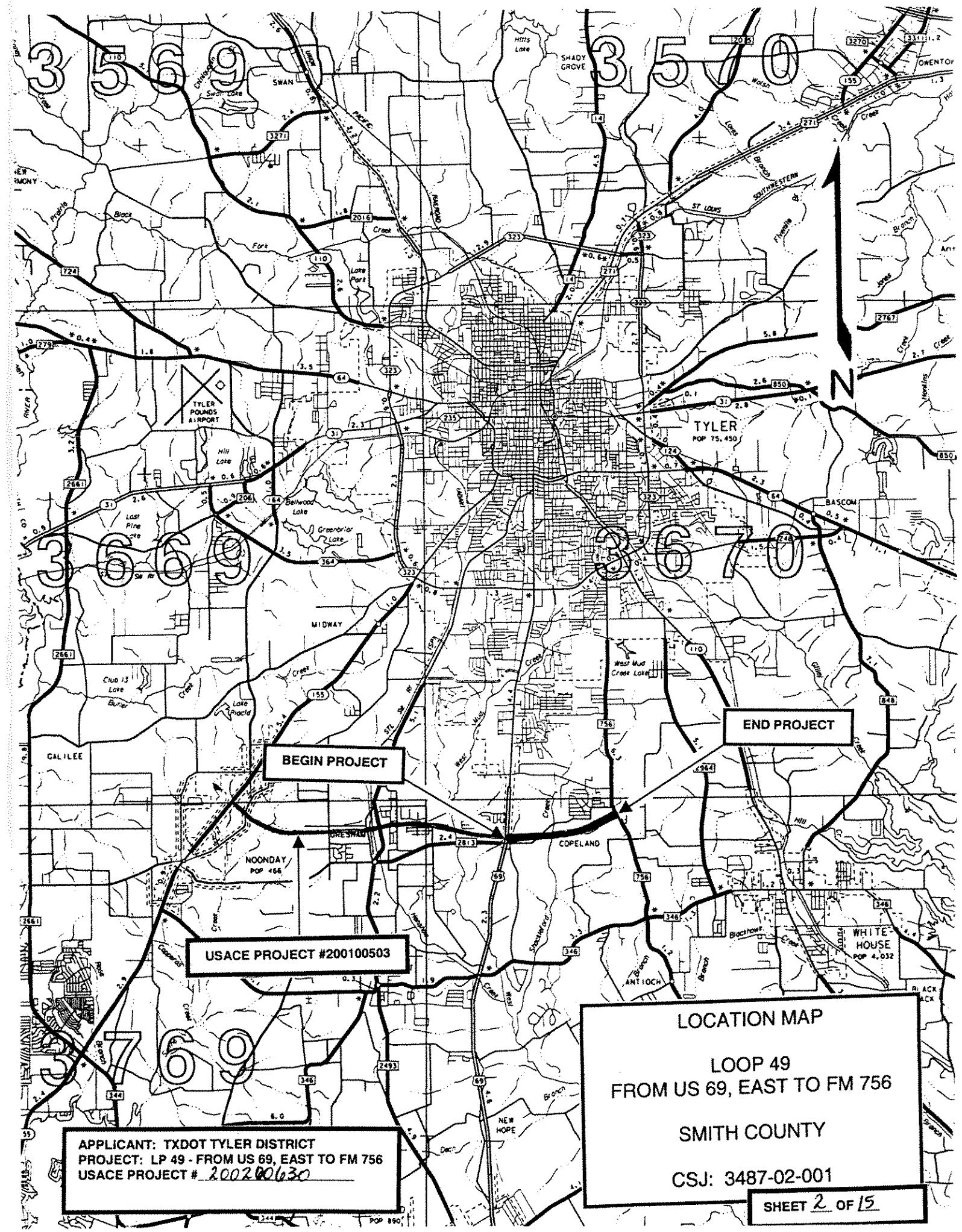
DISTRICT ENGINEER  
FORT WORTH DISTRICT  
CORPS OF ENGINEERS

Figure 1 of 15

**LP 49**

**From US 69, East to FM 756  
Smith County, Texas  
USACE #200200630**



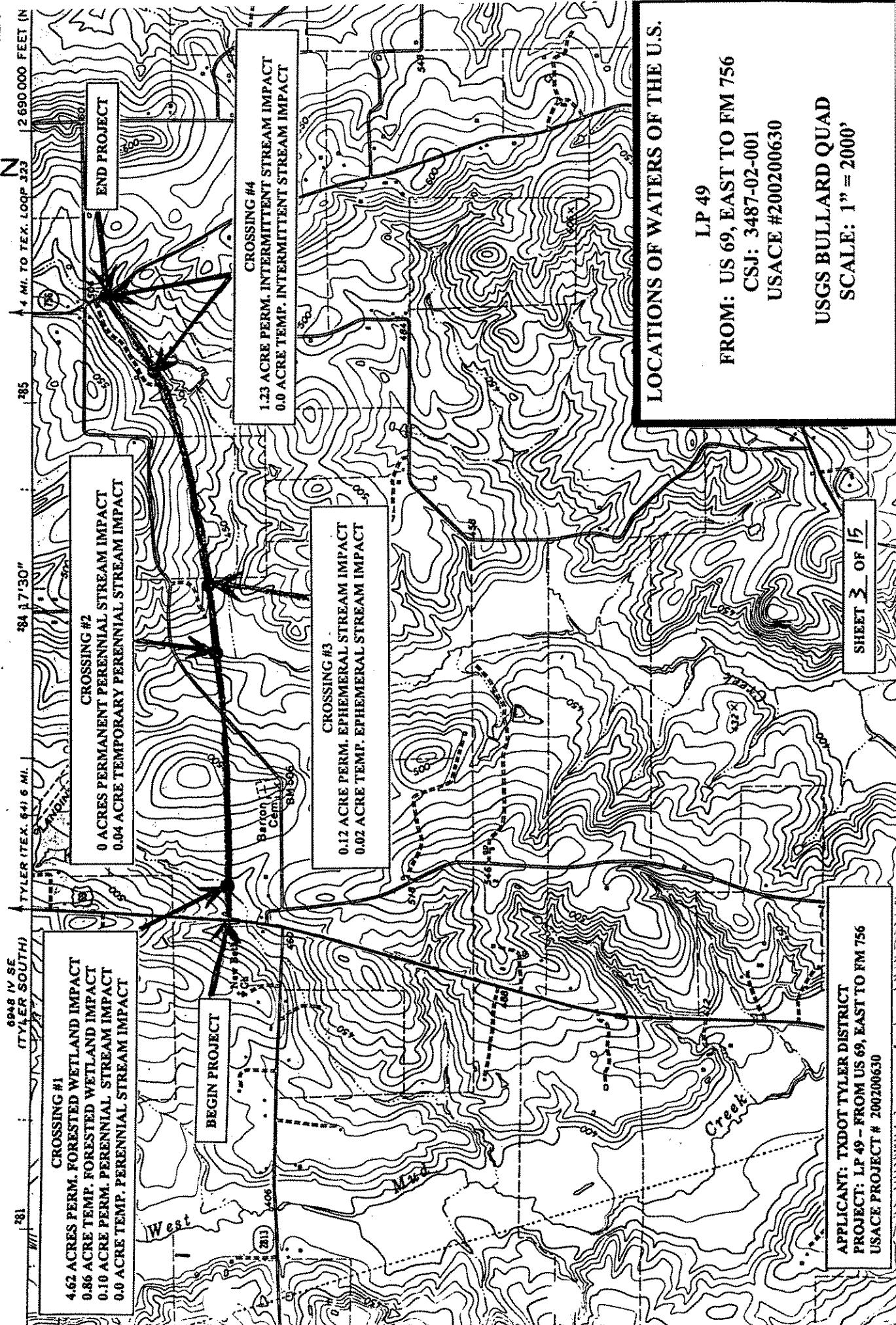


APPLICANT: TXDOT TYLER DISTRICT  
PROJECT: LP 49 - FROM US 69, EAST TO FM 756  
USACE PROJECT # 2002001630

STATE OF TEXAS  
TEXAS WATER DEVELOPMENT BOARD

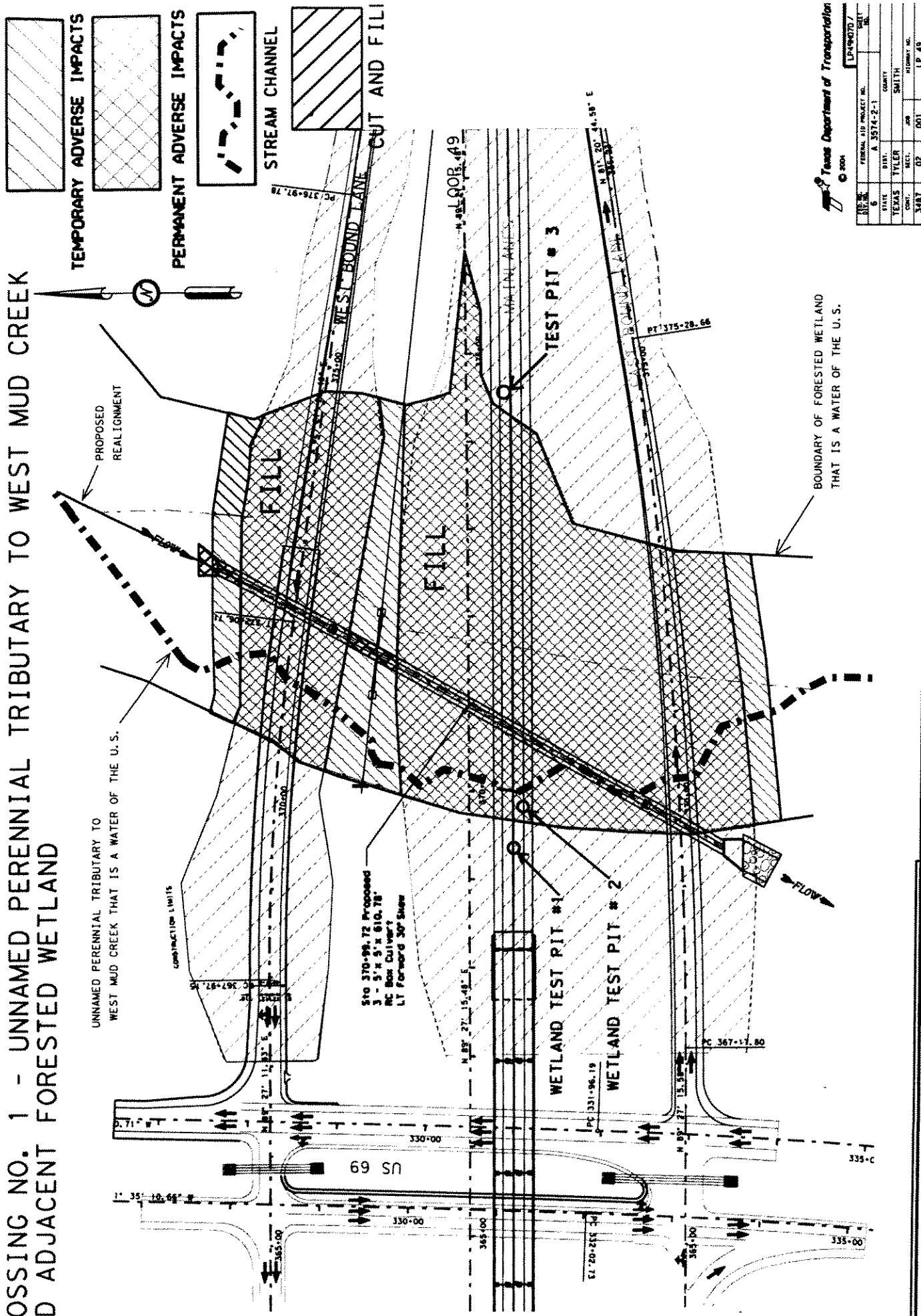
BULLA

ME4  
7.5 MINUTE



CROSSING NO. 1 - UNNAMED PERENNIAL TRIBUTARY TO WEST MUD CREEK  
AND ADJACENT FORESTED WETLAND

UNNAMED PERENNIAL TRIBUTARY TO  
WEST MAD CREEK THAT IS A WATER OF THE U. S.



APPLICANT: TXDOT TYLER DISTRICT  
PROJECT: LP 49 - FROM US 69, EAST TO FM 756  
USACE PROJECT #: 200200630

SHEET 4 OF 15

Texas Department of Transportation		TP-940707
		STATE AID PROJECT NO.
6	A 3527-2-1	ROUTE NAME
STATE	COUNTY	STATE
TEXAS	TYLER	TEXAS
CONC	CONC	CONC
3527	02	001
		LP 49

NAME	FEDERAL AID PROJECT NO.		COUNTY	STATE	PROJECT NO.
	6	A 35574-2-1			
TEXAS	TYLER	SACCT.	SMITH	STATE	STATEMENT NO.
COUNTY		REC'D.			



## C LP 49 STA 370+99.72

CROSS SECTION OF PROPOSED ROAD  
AND RAMPS AT CROSSING NO. 1DETAIL A  
RIP RAP LINED STREAM CHANNEL  
DOWNSTREAM OF BOX CULVERT

L-2-0

1-0

2-0

3-0

4-0

5-0

6-0

7-0

8-0

9-0

10-0

11-0

12-0

13-0

14-0

15-0

16-0

17-0

18-0

19-0

20-0

21-0

22-0

23-0

24-0

25-0

26-0

27-0

28-0

29-0

30-0

31-0

32-0

33-0

34-0

35-0

36-0

37-0

38-0

39-0

40-0

41-0

42-0

43-0

44-0

45-0

46-0

47-0

48-0

49-0

50-0

51-0

52-0

53-0

54-0

55-0

56-0

57-0

58-0

59-0

60-0

61-0

62-0

63-0

64-0

65-0

66-0

67-0

68-0

69-0

70-0

71-0

72-0

73-0

74-0

75-0

76-0

77-0

78-0

79-0

80-0

81-0

82-0

83-0

84-0

85-0

86-0

87-0

88-0

89-0

90-0

91-0

92-0

93-0

94-0

95-0

96-0

97-0

98-0

99-0

00-0

01-0

02-0

03-0

04-0

05-0

06-0

07-0

08-0

09-0

10-0

11-0

12-0

13-0

14-0

15-0

16-0

17-0

18-0

19-0

20-0

21-0

22-0

23-0

24-0

25-0

26-0

27-0

28-0

29-0

30-0

31-0

32-0

33-0

34-0

35-0

36-0

37-0

38-0

39-0

40-0

41-0

42-0

43-0

44-0

45-0

46-0

47-0

48-0

49-0

50-0

51-0

52-0

53-0

54-0

55-0

56-0

57-0

58-0

59-0

60-0

61-0

62-0

63-0

64-0

65-0

66-0

67-0

68-0

69-0

70-0

71-0

72-0

73-0

74-0

75-0

76-0

77-0

78-0

79-0

80-0

81-0

82-0

83-0

84-0

85-0

86-0

87-0

88-0

89-0

90-0

91-0

92-0

93-0

94-0

95-0

96-0

97-0

98-0

99-0

00-0

01-0

02-0

03-0

04-0

05-0

06-0

07-0

08-0

09-0

10-0

11-0

12-0

13-0

14-0

15-0

16-0

17-0

18-0

19-0

20-0

21-0

22-0

23-0

24-0

25-0

26-0

27-0

28-0

29-0

30-0

31-0

32-0

33-0

34-0

35-0

36-0

37-0

38-0

39-0

40-0

41-0

42-0

43-0

44-0

45-0

46-0

47-0

48-0

49-0

50-0

51-0

52-0

53-0

54-0

55-0

56-0

57-0

58-0

59-0

60-0

61-0

62-0

63-0

64-0

65-0

66-0

67-0

68-0

69-0

70-0

71-0

72-0

73-0

74-0

75-0

76-0

77-0

78-0

79-0

80-0

81-0

82-0

83-0

84-0

85-0

86-0

87-0

88-0

89-0

90-0

91-0

92-0

93-0

94-0

95-0

96-0

97-0

98-0

99-0

00-0

01-0

02-0

03-0

04-0

05-0

06-0

07-0

08-0

09-0

10-0

11-0

12-0

13-0

14-0

15-0

16-0

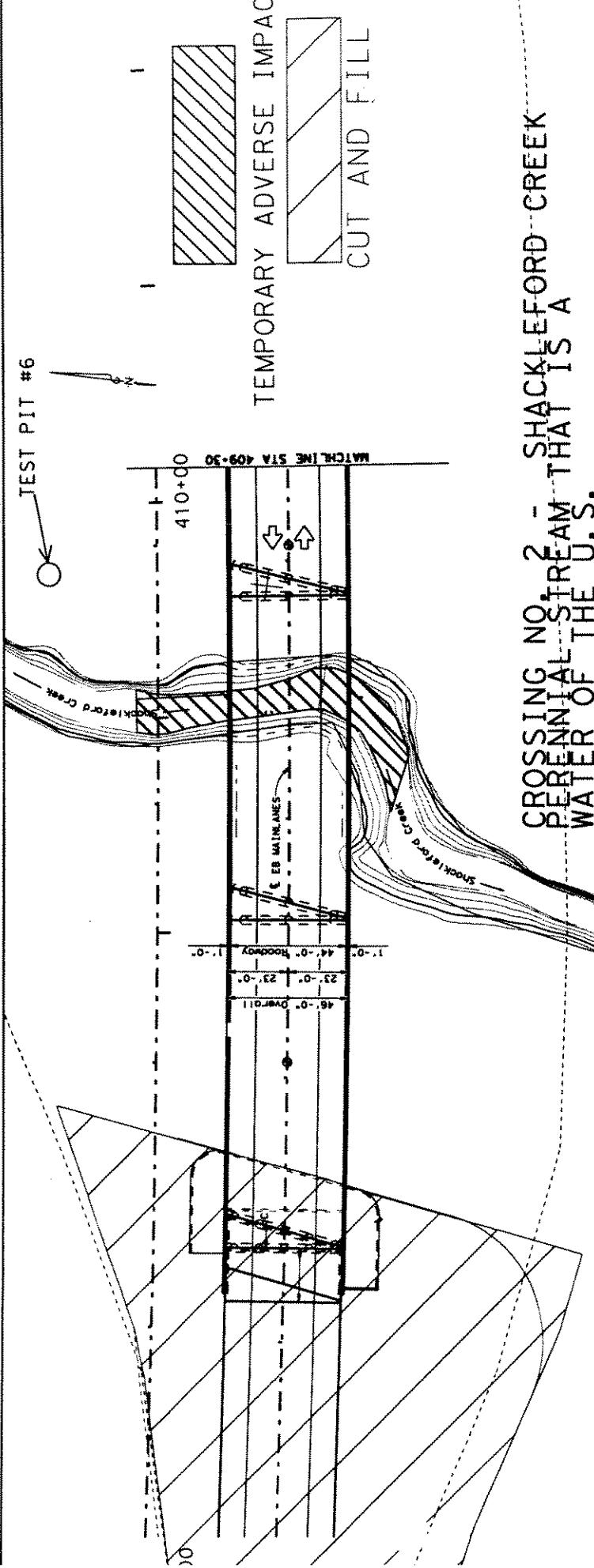
17-0

18-0

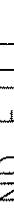
19-0

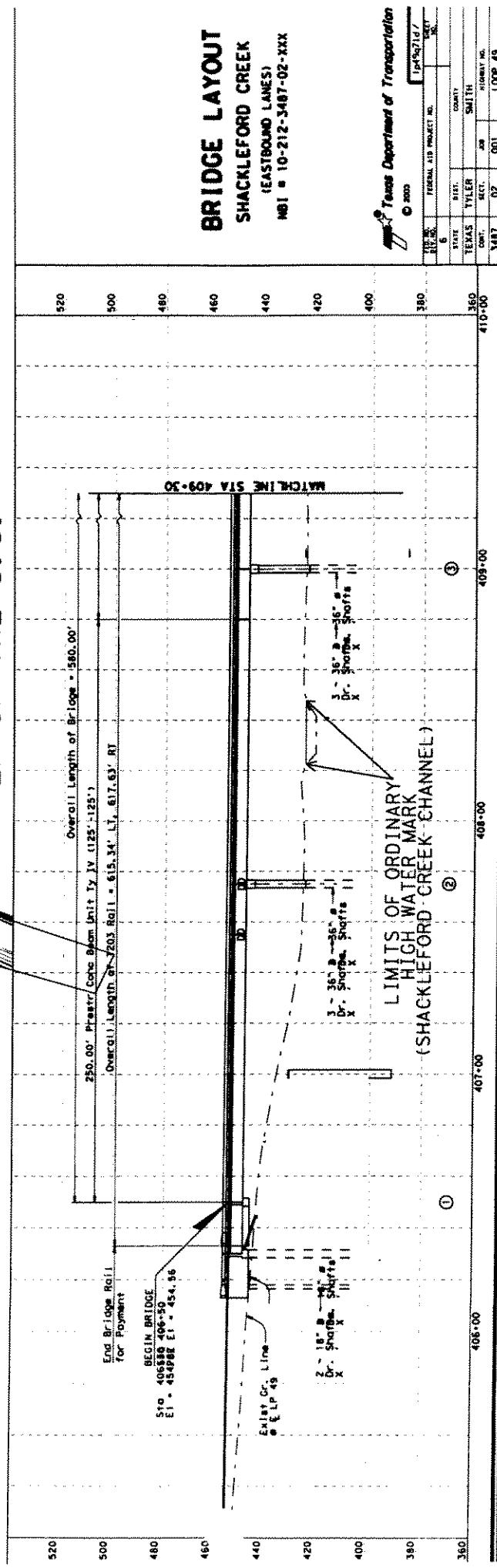
20-0

21-0



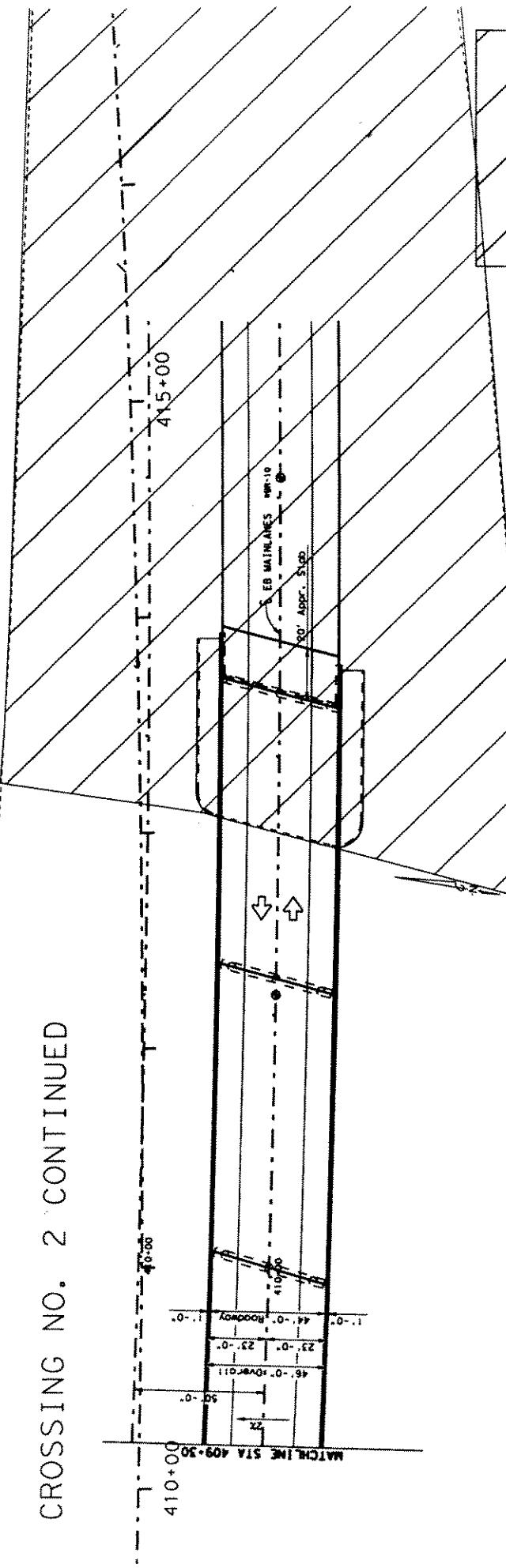
CROSSING NO. 2 - SHACKLEFORD CREEK  
BETWEEN THE RIVER AND THE STREAM THAT IS A  
WATER OF THE U. S.

TEMPORARY ADVERSE IMPACT  
  
CUT AND FILL

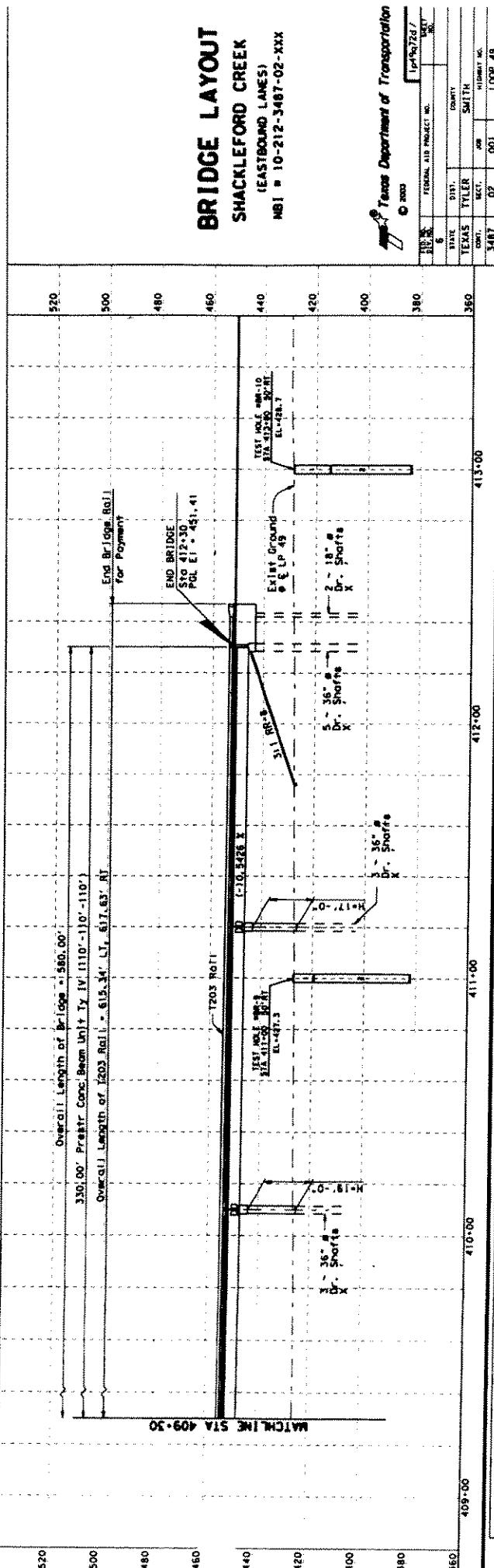


APPLICANT: TXDOT TYLER DISTRICT  
PROJECT: LP 49 - FROM US 69, EAST TO FM 756  
USAID PROJECT # 200200630

CROSSING NO. 2 CONTINUED



CUT AND FILL



APPLICANT: TXDOT - TYLER DISTRICT  
PROJECT: LP 49 - FROM US 69, EAST TO FM 756  
USACE PROJECT # 200200630

SHEET 8 OF 15

BEGINNING OF CHANNEL

LIMIT OF RIGHT-OF-WAY

EPHEMERAL STREAM CHANNEL

CROSSING NO. 3 Ephemeral Stream  
THAT IS A TRIBUTARY TO SHACKLEFORD CREEK  
AND IS A WATER OF THE U.S.

TA 420+00

STA 422+90  
PROP 1-36 x 291' RCP  
30'L FT FWD SKEW

MATCHLINE

LIMITS OF CUT AND FILL

LP 49

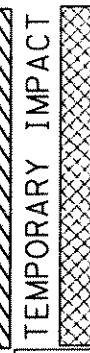
EB MAIN LANES

LIMITS OF CUT AND FILL

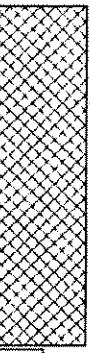
LIMIT OF RIGHT-OF-WAY

APPLICANT: TXDOT TYLER DISTRICT  
PROJECT: LP 49 - FROM US 69, EAST TO FM 756  
USACE PROJECT # 200200630

SHEET 9 OF 15



TEMPORARY IMPACT

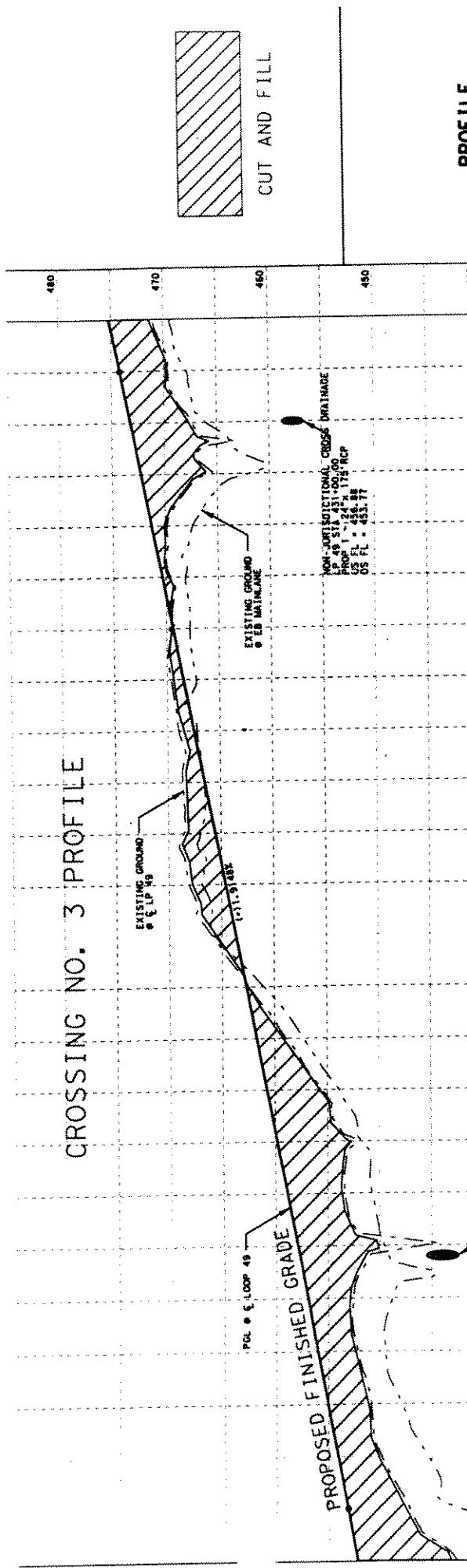


PERMANENT IMPACT



CUT AND FILL

CROSSING NO. 3 PROFILE



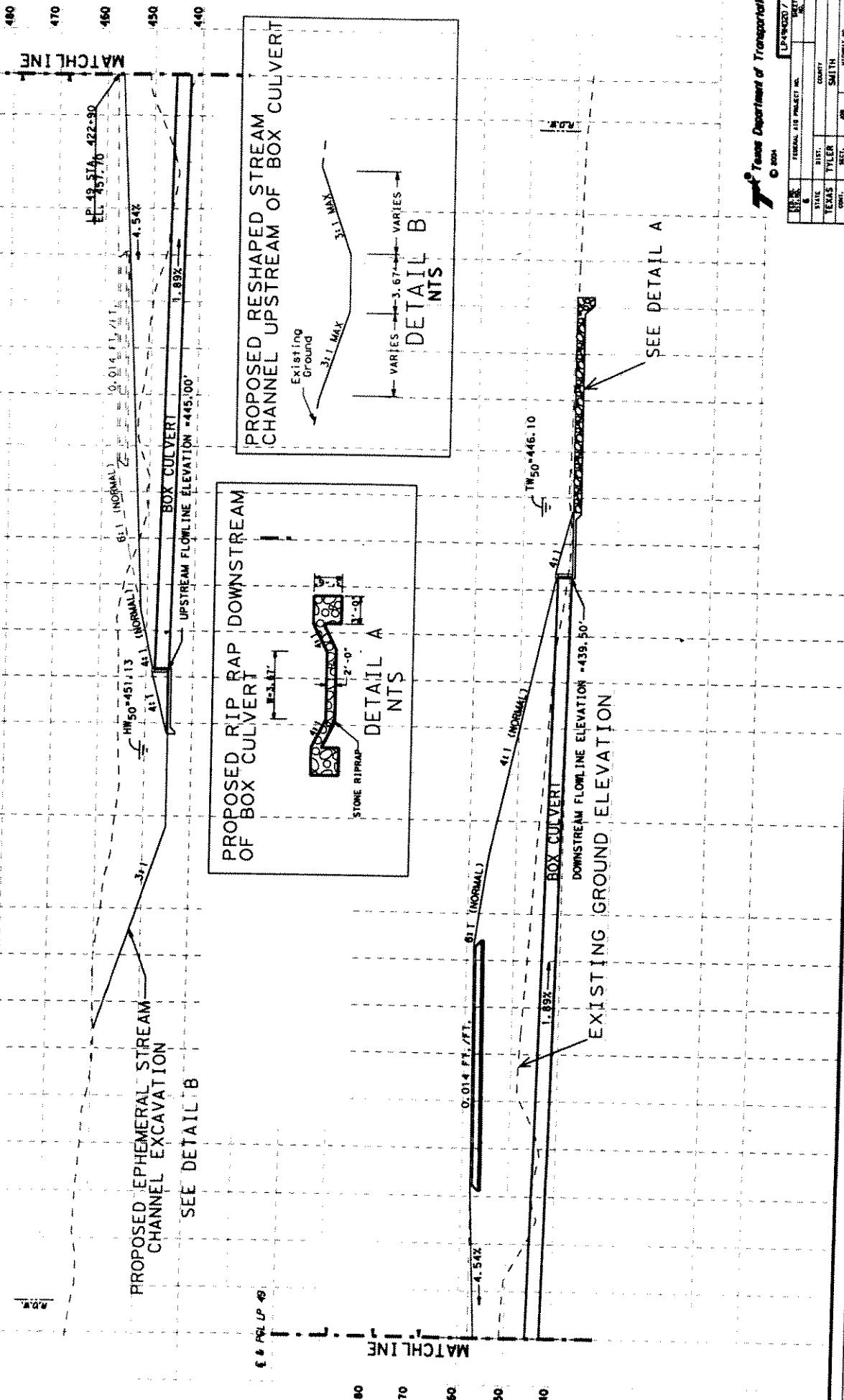
PROFILE  
L COOP 49 MAIN LANES

STG 420+00 to STA 432+00

APPLICANT: TXDOT TYLER DISTRICT  
PROJECT: LP 49 - FROM US 69, EAST TO FM 756  
USACE PROJECT #: 200200630

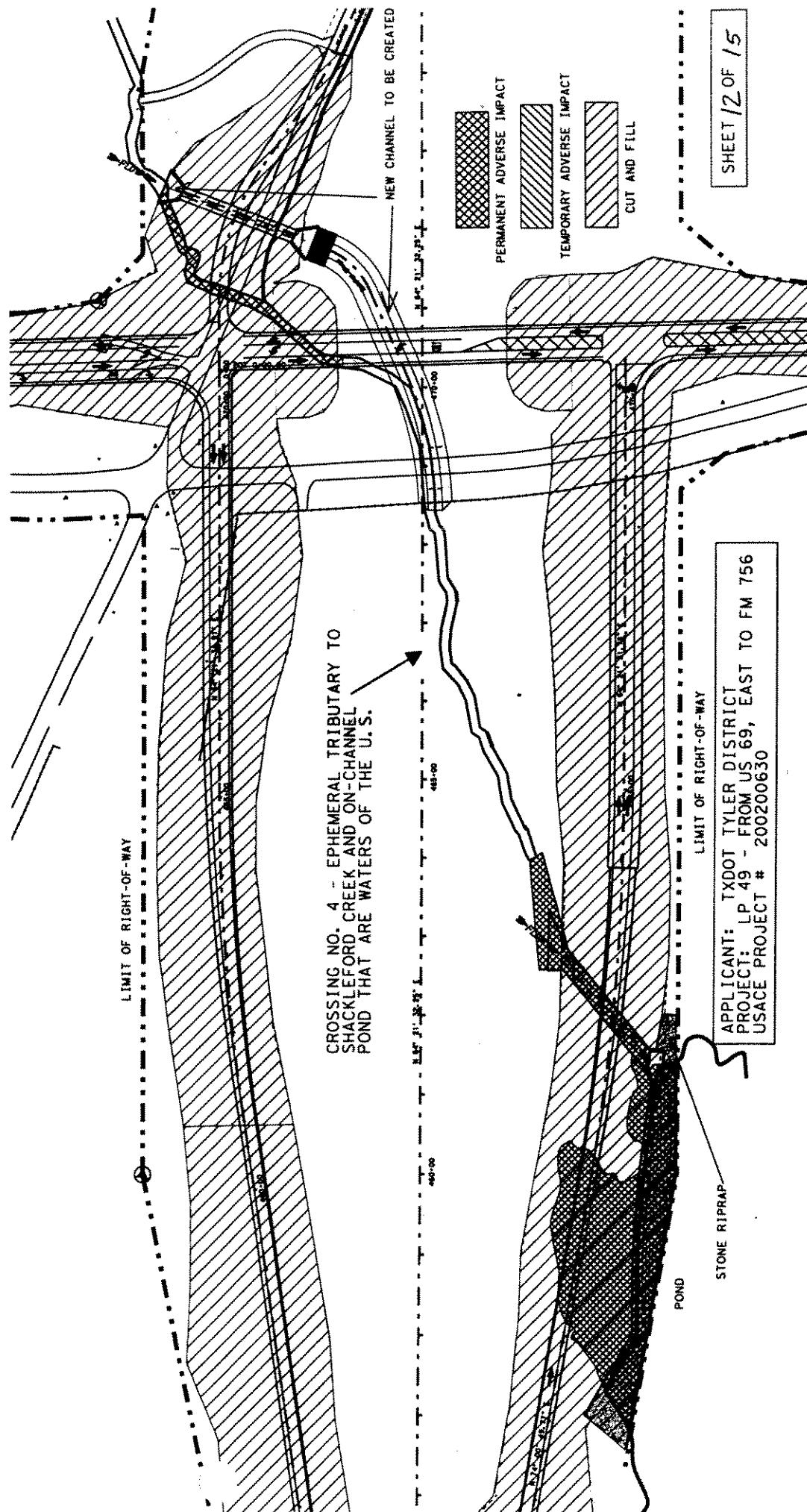
PAGE 10 OF 15

# CROSS SECTION OF PROPOSED ROAD AT CROSSING NO. 3

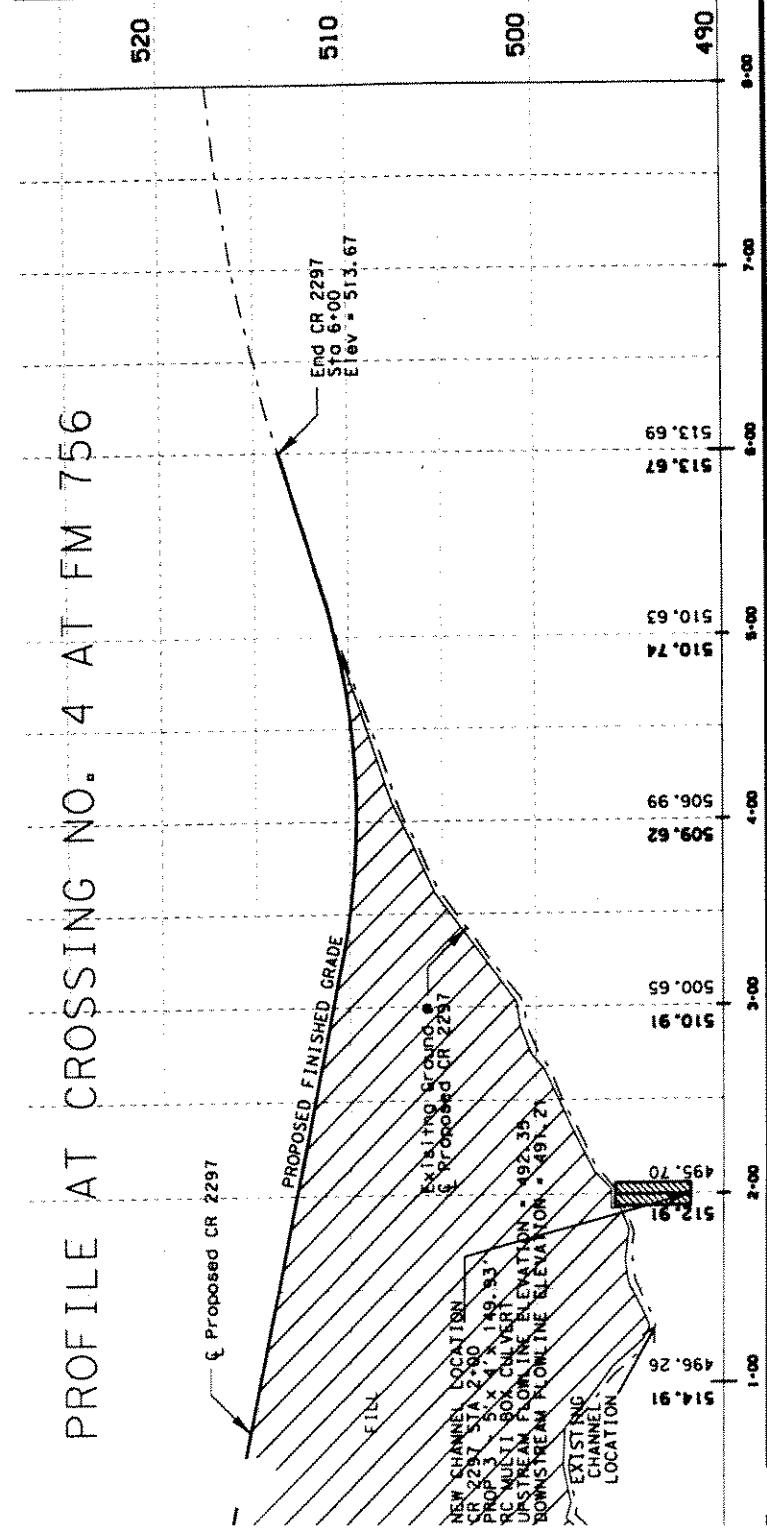


PROJECT: LP 49 - FROM US 69, EAST TO FM 756  
USACE PROJECT # 200200630

SHEET 11 OF 15



PROFILE AT CROSSING NO. 4 AT FM 756



**PLAN PROFILE**  
**CR 2297**  
**(BREWER RD)**

FROM STA 0+01.13 TO STA 6+00

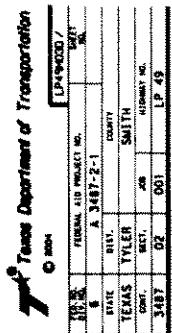
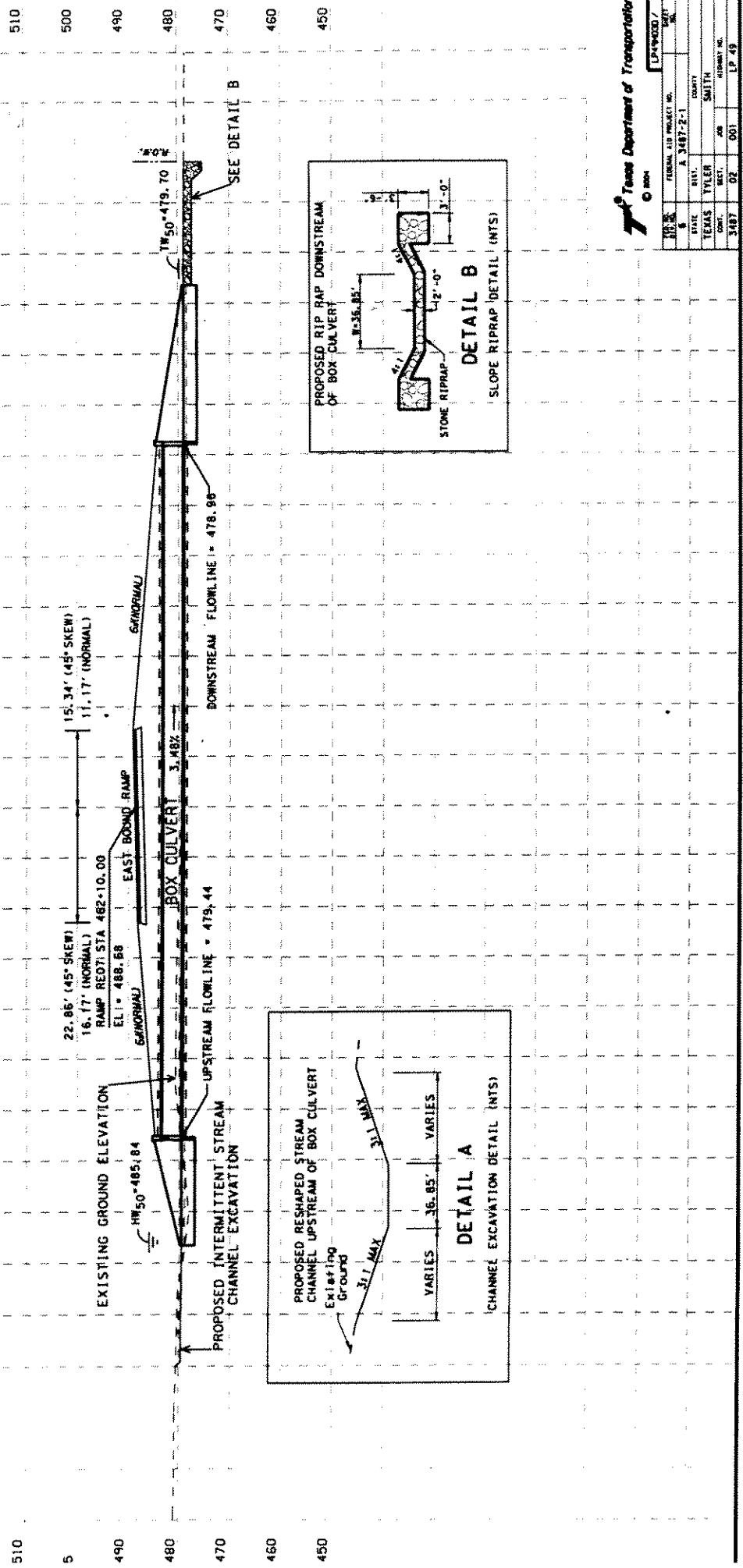
**Texas Department of Transportation**  
© 2004 LP49H61D /

FED. RD. / DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
6	SMITH	1
STATE	DIST.	COUNTY
TEXAS	TYLER	SMITH
CONT.	SECT.	HIGHWAY NO.
3487	02	001
		LP 49

APPLICANT: TXDOT - TYLER DISTRICT  
PROJECT: LP 49 - FROM US 69, EAST TO FM 756  
USACE PROJECT # 200200630

PAGE 13 OF 15

**CROSS SECTION OF CULVERT AT CROSSING  
NO. 4 AT POND IN INTERMITTENT STREAM  
THAT IS A WATER OF THE U.S.**



APPLICANT: TXDOT TYLER DISTRICT  
PROJECT: LP 49 - FROM US 69, EAST TO FM 756  
USACE PROJECT # 200200630

**SHEET 14 OF 15**

